Bids received until Feb. 25, 1915.

Water Meters and Machinery

BUREAU OF ENGINEERING.
DEPARTMENT OF PUBLIC WORKS.

Chicago, February 3, 1915.

Sealed proposals will be received by the City of Chicago until 11 a.m. Thursday, February 25th, 1915, at Room 406 City Hall, for manufacturing and delivering to the City of Chicago Water Meters, made according to designs prepared by the City of Chicago. The following quantities of water meters are desired:

1,500 ¾-inch meters.
2,000 1-inch meters.
750 1½-inch meters.
750 2-inch meters.

The city will furnish detail drawings and one set of patterns of each meter. The contractor is to turn over to the city upon completion of his contract special machinery, tools, dies, jigs, etc., used in the manufacture of the meters, according to plans and specifications on file in the office of the Department of Public Works of said city, Room 406 City Hall.

Proposals must be made out upon blanks furnished at said office, and be addressed to said department, indorsed "Proposals for Water Meters," and be accompanied with One Thousand Dollars in money or a certified check for the same amount on some responsible bank located and doing business in the City of Chicago, and made payable to the order of the Commissioner of Public Works.

The Commissioner of Public Works reserves the right to reject any or all bids.

No proposal will be considered unless the party offering it shall furnish evidence satisfactory to the Commissioner of Public Works of his ability, and that he has the necessary facilities, together with sufficient pecuniary resources, to fulfill the conditions of the contract and specifications provided such contract should be awarded to him.

Companies or firms bidding will give the individual names as well as the name of the firm with their address.

L. E. McGANN,
Commissioner of Public Works.

Bids received until Mar. 1, 1915.

Resurfacing Stone Roads

Mt. Holly, N. J.

Sealed proposals will be received by the Road Committee of the Board of Chosen Freeholders of the County of Burlington, New Jersey, at the County Collector's Office, Mount Holly, N. J., on

MONDAY, MARCH 1st, 1915,

at 11:30 A.M., for resurfacing several stone roads in Burlington County.

Specifications and information may be obtained from James Logan, County Engineer, Mount Holly, N. J.

By order of the Board,
JOSEPH S. BRIGHT, Chairman,
JOHN C. DUDLEY,
JOHN LOGAN,
Committee.

S. M. McFARLAND, Supervisor,
JAMES LOGAN, County Engineer,
A. I. DAVIS, Director,
HARRY HAWKINS, JR., Clerk.

Bids received until Mar. 5, 1915.

Notice to Drainage Contractors

Elbow Lake, Minn.

On March 5th, 1915, at the Court House in Elbow Lake, Minn., the undersigned will sell the following two ditch jobs

Job No. 1, County Ditch No. 21.

Open	ditch, length, feet	3,000
Tiled	" " "	49,196

Job No. 2, County Ditch No. 18.

Open	ditch, length, feet	5,700
Excavation, cu.yds.		14,151
Tiled	ditch, length, feet	2,000

Specifications may be seen at the office of Co. Aud. and also at the office of J. E. Cole, engineer in charge, Morris, Minn.

Those interested send to County Auditor for detailed information.

C. M. NELSON, Co. Aud.,
Grant County, Minn.

Bids received until Feb. 26, 1915.

Pipe Sewers and Disposal Works

Mt. Morris, N. Y.

Sealed proposals will be received by the Municipal Board of the Village of Mount Morris, N. Y., until 12 o'clock, noon, on the 26th day of February, 1915, for the construction of about nine miles of pipe sewers and disposal works, and appurtenances.

Plans may be seen and specifications obtained at the office of the Board at Mount Morris, N. Y., or at the office of Charles C. Hopkins, Engineer, Rochester, N. Y.

The Board hereby reserves and has the right to reject any or all bids, or to acce t any that in its judgment will be for the best interests of the Village.

A surety bond satisfactory to the Board in form and amount will be required of him to whom the contract may be awarded.

A certified check, made payable to the order of the Board of Trustees of Mount Morris, N. Y., to the amount of $2000 must be deposited by each bidder and accompany his bid as a guarantee that in case the contract is awarded to him he will, within seven days thereafter, execute such contract.

Bids will be received for the whole work or for the pipe sewers or disposal works separately, and must be sealed and addressed to the Municipal Board, care of the Village Clerk, Mount Morris, N. Y., and marked on the outside of the envelopes "proposal for Sewerage System."

THE VILLAGE OF MOUNT MORRIS,
R. W. WHITE
J. F. DONOVAN
J. C. DICKEY
Municipal Board.

C. C. HOPKINS, Engineer,
349 Cutler Bldg., Rochester, N. Y.

Bids received until Mar. 24, 1915.

High Duty Water Works Pumping Engine

City of Perth Amboy, N. J.

Sealed proposals will be received at the office of the Board of Water Commissioners of the City of Perth Amboy, N. J., at the City Hall, at 8 o'clock p.m., March 24th, 1915, for furnishing and erecting one twelve-million-gallon pumping engine, in accordance with plans and specifications on file in the office of the Clerk of the Board of Water Commissioners in the City Hall, where copies may be obtained. Said engine to be placed in the pump house at Runyon, N. J., as specified, and such bids to include all accessories usually accompanying an engine of the class bid upon, together with steam and water connections, the whole ready and in place. In comparing bids consideration will be given to special adaptability to conditions met, merit of design and economy, as well as first cost.

Each bid must be accompanied by plans sufficiently in detail to give a clear idea of the sizes and arrangement of the principal parts and by specifications giving a description of the engine, and stating the duty to be guaranteed, length of time required for completion, etc. Each bid must be accompanied by a certified check for an amount equal to five (5) per cent. of the amount of the bid.

The right is reserved to reject any or all proposals.

PETER KROEGER, Clerk.

S. J. MASON, Engineer.

Bids received until Mar. 5, 1915.

Concrete Pavement and Bituminous Surface

Roselle Park, N. J.

Sealed proposals will be received by the Mayor and Council of the Borough of Roselle Park, N. J., for concrete pavements and appurtenances at eight thirty P.M. Friday, March fifth, 1915.

Plans and specifications may be obtained at the office of the undersigned between the hours of eight thirty A.M. and 12 M. upon payment of a deposit of $10.00, which will be refunded upon return of same.

A certified check for $500.00 must accompany each proposal.

The Council reserves the right to reject any or all proposals as may be deemed best for the interests of the Borough.

W. H. LUSTER, Borough Engineer,
286 N. Broad St., Elizabeth, N. J.

Bids received until Mar. 1, 1915.

Animal Building

Rosebank, N. Y.

Sealed proposals for Animal Building, for the Port of New York, at the Quarantine Station, Rosebank, Staten Island, N. Y., Construction, Heating, Plumbing and Drainage and Gas Piping and Electric work, will be received by Dr. Joseph J. O'Connell, Health Officer of the Port of New York, Quarantine Station, Staten Island, N. Y., until 11:30 A.M. March 1, 1915, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of $300.00 for Construction Work, $30.00 for Heating Work, $70.00 for Plumbing, Drainage and Gas Piping and $50.00 for Electric Work. Contractors to whom awards are made will be required to furnish surety company bond in the sum of 50% of the amount of contract within thirty days after official notice of award of contract and in accordance with the terms of specification Nos. 2133, 2148, 2149 and 2150. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the office of the Health Officer, Port of New York, Rosebank, Staten Island, N. Y.; at the New York office of the Department of Architecture, Room 1224, Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon the deposit of a certified check in the sum of $10.00 made payable to the State of New York for each set of plans and specifications, which check will be returned if plans and specifications are sent back in good condition to the State Architect, Lewis F. Pilcher, Capitol, Albany, N. Y.

Bids received until Mar. 2, 1915.

Proposals for Road Oil

Wilkes-Barre, Pa.

SEALED PROPOSALS will be received at the City Clerk's Office, Wilkes-Barre, Pennsylvania, until Tuesday, March 2nd, 1915, at 12 o'clock noon, for furnishing and delivering F.O.B. cars, Wilkes-Barre, Pennsylvania, Forty Thousand (40,000) gallons of road oil, more or less. The bidder will quote prices by the barrel, tank car or otherwise and will plainly give the name or brand of oil bid on, and must submit samples with proposal. Proposals will be endorsed "Proposals for Road Oil" and addressed to Fred H. Gates, City Clerk, and each bid must be accompanied by a certified bank check of the bidder in the sum of Two Hundred Dollars ($200.00), conditioned upon entering into a contract with the City, otherwise no action will be taken on the bid submitted. The City reserves the right to reject any or all bids received.

CHARLES N. LOVELAND, Superintendent,
Department of Streets and Public Improvements.

Bids received until Feb. 25, 1915.

Section H—Dorchester Tunnel

City of Boston, Mass.

Sealed bids for building Section H, Dorchester Tunnel, will be received by the undersigned until 12 o'clock noon of Thursday, February 25, 1915. The section is located in Dorchester avenue between Old Colony avenue and Woodward street, and is about 2,200 feet long. The structure is to be mainly of reinforced concrete, and consists of a single span double track tunnel to be built by the cut and cover method. The work also includes a pump well, an emergency exit, and sewer changes. Specifications and forms of contract can be obtained at 15 Beacon street, ninth floor. The right to reject any and all bids and to award the contract as is deemed to be for the best interest of the City of Boston is reserved.

By order of the BOSTON TRANSIT COMMISSION,
B. LEIGHTON BEAL, Secretary.

Attention of Large Contractors

is called to an opportunity of which full information can be obtained by writing

JOHN L. ROPER LUMBER COMPANY,
Norfolk, Va.

Bids received until Feb. 25, 1915.

Concrete Bridge

DEPARTMENT OF PUBLIC WORKS
Office, 216 City Hall
Philadelphia, February 8th, 1915.

Sealed Proposals, endorsed "Bids for the construction of a concrete bridge and its approaches to carry Broad Street over the joint four track railroad, South Philadelphia Track Elevation," and addressed to the undersigned, at Room 216 City Hall, will be received until 12 o'clock, noon, February 25th, 1915, for

CONTRACT No. 201. Broad Street Bridge over the joint four track railroad, South Philadelphia Track Elevation.

Plans for the above work will be exhibited in the office of Bureau of Surveys, Philadelphia.

Specifications and blank forms upon which bids must be made, will be furnished upon application to the Chief Engineer, Room 416 City Hall.

Bidders must be skilled and regularly engaged in the class of work bid for.

Bids will be opened and read in Room 225 City Hall, at noon, on date above mentioned.

No bid will be considered unless accompanied by a certificate from the City Solicitor that the provisions of an ordinance requiring proposal bonds when the bids exceed in amount five hundred dollars, approved May 25, 1860 (p. 81, West), have been complied with.

The Director reserves to himself the right to reject any or all bids, as he may deem best for the interests of the city and the various Railroad Companies.

M. L. COOKE, Director.

Bids received until Mar. 12, 1915.

Proposals for Street Paving

Wilkes-Barre, Pa.

SEALED PROPOSALS will be received at the City Clerk's Office, Wilkes-Barre, Pennsylvania, until Friday, March 12th, 1915, at 12 o'clock Noon, for curbing and paving streets in the City of Wilkes-Barre, Pennsylvania. Bids to be submitted in accordance with specifications, copies of which may be had upon application to B. K. Finch, City Engineer, upon the payment to him of the sum of Five Dollars ($5.00), which will be refunded to bidders, provided specifications are returned to the City Engineer on or before March 15th, 1915. Bids to be submitted as follows:—For sheet asphalt in two sections, totaling about 40,000 square yards; For vitrified brick in four sections totaling about 46,000 square yards; For cobblestone in one section of 600 square yards; For vitrified brick and macadam in one section of 7,500 square yards, together with the necessary red stone, blue stone or concrete curbing. Certified bank check for Five Hundred Dollars ($500.00) to accompany each bid except for cobblestone, which will be for One Hundred Dollars ($100.00). Proposals to be endorsed "Proposals for curbing or paving" and addressed to Fred H. Gates, City Clerk. The City Council reserves the right to reject any or all bids received.

CHARLES N. LOVELAND, Superintendent,
Department of Streets and Public Improvements.

Bids received until Mar. 5, 1915.

Supply of True Portland Cement

SEASON 1915.

GREATER WINNIPEG WATER DISTRICT.

Sealed Tenders addressed to the undersigned will be received up to Noon March 5th, 1915, for the supply of from 60,000 to 150,000 barrels of True Portland cement.

Specifications and Form of Tender may be obtained and Form of Contract may be inspected at the Offices of the District.

The lowest or any tender not necessarily accepted.

S. H. REYNOLDS,
Chairman of Commissioners.

901 Boyd Building, Winnipeg, Man.
Date February 1st, 1915.

Bids received until Feb. 23, 1915.

Furnishing Cement

STATE OF ILLINOIS
STATE HIGHWAY DEPARTMENT
Springfield, Illinois.

Notice is hereby given that sealed proposals for furnishing approximately 235,500 barrels of cement to be used in State Aid Road construction for the year of 1915 will be received at the office of the State Highway Commission, Springfield, Illinois, until 3 o'clock P.M. February 23, 1915.

All proposals must be made on forms furnished by the State Highway Commission, without any addition or modification whatsoever.

All proposals otherwise submitted will be rejected as irregular.

The State Highway Commission reserves the right to reject any or all proposals.

Full information may be obtained by writing direct to the State Highway Commission, Springfield, Illinois.

STATE HIGHWAY COMMISSION,
By WM. W. MARR,
Chief State Highway Engineer.

January 30, 1915.

Bids received until Mar. 1, 1915.

Flood Pump

Ford City, Pa.

Sealed proposals are requested by the Borough of Ford City, Pa., for pipe and fittings as follows:

1—20″ Std. Gate Valve, outside screw and yoke drilled Std., split on center line. 1—20″ Copper expansion joint, one end drilled Std., other end dia. flange 26½″, dia. bolt circle 24¼″, 12—⅞″ holes.

1—18″x24″ Cast iron increaser 3′ 8″ long, 18″ discharge, dia. of flange 24″, dia. of bolt circle 22¼″, 12—⅞″ holes.

1—24″ Horizontal flanged check valve. 1—24″ Cast iron Std., flanged long rad. ell. 1 joint of Std. cast iron pipe, 24″x12′ 0″, flange and spigot. 7—Joints of Std. cast iron pipe 24″x12′ 0″, bell and spigot. All pipe fittings and drillings to be Std. except where otherwise noted.

Proposals will be received by D. O. Crouch, Secty., until 7:30 P.M. March 1st, 1915.

FORD CITY BOROUGH, PA.,
D. O. CROUCH, Secretary.

Bids received until Apr. 13, 1915.

Automatic Valves and Check Valves

DEPARTMENT OF WORKS.
Toronto, Ont.

Tenders will be received by registered post only, addressed to the Chairman of the Board of Control, City Hall, Toronto, Canada, up to noon on Tuesday, April 13th, 1915,

For the Supply of
Automatic Valves and Check Valves.

Specifications and Tender Form for the foregoing may be obtained upon application at Room 12, Purchasing and Accounting Section, of the Department of Works, City Hall, Toronto.

Envelopes containing tenders must be plainly marked on the outside as to contents.

The usual conditions relating to tendering as prescribed by City By-law must be strictly complied with, or the tenders may be declared informal.

Tenderers shall submit with their tenders the names of two personal sureties, approved by the City Treasurer, or in lieu thereof, the bond of a guarantee company, approved as aforesaid.

The lowest or any tender not necessarily accepted.

T. L. CHURCH (Mayor),
Chairman, Board of Control.

Toronto, February 8th, 1915.

U. S. ENGINEER OFFICE, Trust Company Building, Postoffice and Tremont Sts., Galveston, Texas, January 25, 1915.—Sealed proposals for construction of motor dredge tender, "La Porte," will be received at this office until 12 o'clock, noon, February 23, 1915, and then publicly opened. Information on application. C. S. RICHE, Lt. Col., Engineers.

U. S. ENGINEER OFFICE, Cincinnati, O., January 27, 1915.—Sealed proposals for constructing and delivering two steel hull sternwheel towboats "Cayuga" and "Ottawa" will be received at this office until 2 p.m., February 26, 1915, and then publicly opened. Information on application. H. JERVEY, Lt. Col., Engrs.

Bids received until Mar. 2, 1915.

Building Extension at State Hospital

Trenton, N. J.

Sealed proposals will be received at the office of the Governor, Trenton, N. J., until twelve o'clock noon on Tuesday, March 2nd, 1915, for furnishing all labor and material necessary for the further extension of the House of Detention for Convict and Criminal Insane at the State Hospital, Trenton, N. J., in accordance with plans and specifications on file in the office of the Commissioner of Charities and Corrections, State House, Trenton, N. J.

Each bidder must accompany his proposal with a certified check for ten per centum of the amount of his proposal, payable to his order, properly endorsed, which will be returned to the unsuccessful bidder immediately following the award of the contract.

Proposals must be enclosed in envelopes sealed and marked "Proposals for the further extension of the House of Detention for Convict and Criminal Insane at the State Hospital, Trenton."

E. I. EDWARDS,
Secretary State House Commission.

Bids received until Mar. 10, 1915.

Canal and Conduit. Electrical Pumping Machinery

SALEM AND BEVERLY WATER SUPPLY BOARD

Sealed bids will be received at City Hall, Salem, Massachusetts, at ten o'clock, March 10, 1915, for the construction of additional works for water supply from the Ipswich River. Plans may be seen, and the form of proposal, specifications, contract and bond may be obtained after February 17, 1915, at the City Hall, Salem, and at the office of Hazen, Whipple & Fuller, consulting engineers, 30 East 42nd Street, New York City.

The work will be divided into two parts: The first contract includes the construction of a dredge, 120,000 cubic yards of excavation, 2870 feet of conduit and accessories. The second contract covers an electric motor driven centrifugal pump, a steam turbine driven generator, transmission line, transformers, switchboard, and wiring.

N. MATTHEWS.
P. J. KELLEY.
J. W. BLACKMER.

Salem, February 10, 1915.

Bids received until Mar. 17, 1915.

Sanitary Sewers

Butte, Mont.

Sealed proposals for the construction of 13 miles of 8″, 10″ and 12″ sanitary sewers for the South Side will be received by John C. Driscoll, City Clerk, until 5 o'clock P.M. Wednesday, March 17, 1915. Certified check for 10% of the amount bid must accompany all proposals.

Plans and specifications may be obtained at the office of the Commissioner of Public Works upon the deposit in the sum of $20.00, same to be refunded when plans and specifications are returned in good condition.

W. J. FLOOD,
Commissioner of Public Works.

Road Oil

Atlantic Highlands, N. J.

BIDS WANTED for two cars good road oil applied on streets. Address Borough of Atlantic Highlands, N. J.

U. S. ENGINEER OFFICE, First District, New York City, Room 710 Army Building, 39 Whitehall Street, New York, N. Y., February 13, 1915.—Sealed proposals for furnishing and delivering 32,000 barrels of American Portland Cement will be received at this office until 12 M., February 26, 1915, and then publicly opened. Information on application. W. M. BLACK, Col., Engrs.

U. S. ENGINEER OFFICE, Room 707, Army Building, New York, N. Y., Feb. 11, 1915.—Sealed proposals for 20 tanks, from 2,250 to 5,700 gals. capacity, for Philippine Islands, will be received at this office until 12 M., March 9, 1915, and then publicly opened. Information on application. S. W. ROESSLER, Col., Engrs.

Bids received until Feb. 26, 1915.

Garbage Disposal Plant Equipment

Dayton, Ohio.

Sealed proposals will be received at the office of the City Purchasing Agent, Room 11, City Bldg., Dayton, until 12 o'clock noon of Friday, February 26th, 1915, for the furnishing of equipment for a garbage disposal plant.

Detailed information concerning the work may be obtained at the office of the Director of Public Service. The city reserves the right to reject any and all bids.

FOWLER S. SMITH,
City Purchasing Agent.

Concrete Roads

I want the names of contractors in Southern Illinois, or Missouri, to figure on six miles of concrete roads, for an estate. C. L. 874, Engineering News, Chicago.

SEALED PROPOSALS will be received at the Office of the Lighthouse Inspector, Philadelphia, Pa., until 2 o'clock p.m., March 11, 1915, and then opened, for furnishing and depositing 1,000 tons of broken stone and 2,100 tons of riprap at Brandywine Shoal Light Station, Delaware Bay. Blank proposals and particulars may be obtained by addressing the above office.

U. S. ENGINEER OFFICE, 602 Burke Bldg., Seattle, Wash., Feb. 3, 1915.—Sealed proposals for pumping plant for Lake Washington Canal locks will be received at this office until 12 noon, March 15, 1915, and then publicly opened. Information on application to U. S. Engr. Office, Seattle, Wn., Chicago, Ill., or New York, N. Y. J. B. CAVANAUGH, Maj., Engrs.

U. S. ENGINEER OFFICE, Wilmington, N. C., Feb. 10, 1915.—Sealed proposals for dredging in Neuse River, waterway from Pamlico Sound to Beaufort Inlet, and Beaufort Harbor, N. C., will be received at this office until 12 M., Mar. 9, 1915, and then publicly opened. Information on application. H. W. STICKLE, Maj., Engineers.

PROPOSALS FOR RIVER BANK PROTECTION—U. S. Engineer Office, Customhouse, St. Louis, Mo., February 8, 1915.—Sealed proposals for 10,000 linear feet of river bank protection, to include materials and work, will be received at this office until 11 A.M., March 10, 1915, and then publicly opened. Information on application. C. McD. TOWNSEND, Col., Engineers.

U. S. ENGINEER OFFICE, New London, Conn., Feb. 15, 1915.—Sealed proposals for dredging in the Connecticut River below Hartford, will be received here until 2 o'clock p.m. Mar. 18, 1915, and then publicly opened. Information on application. G. B. PILLSBURY, Major, Engrs.

U. S. ENGINEER OFFICE, Charleston, S. C., February 17, 1915.—Sealed proposals for dredging in Ashley River, S. C., will be received at this office until noon, March 19, 1915, and then publicly opened. Information on application. G. A. YOUNGBERG, Major, Engrs.

DEPARTMENT OF THE INTERIOR, U. S. RECLAMATION SERVICE, Washington, D. C., Feb. 9, 1915.—Sealed proposals will be received at the office of the United States Reclamation Service, Provo, Utah, until 2 o'clock P.M., March 10, 1915, for construction involving about 12,800 yards of excavation and 2100 yards of reinforced concrete. The work is located near Payson City, Utah, on the San Pedro, Los Angeles and Salt Lake R.R. and the Tintic Branch of the Denver and Rio Grande R.R. For particulars address the United States Reclamation Service, Provo, Utah, or Washington, D. C. A. P. DAVIS, Director and Chief Engineer.

U. S. ENGINEER OFFICE, First District, New York City, Room 710, Army Building, 39 Whitehall Street, New York, N. Y., January 23, 1915.—Sealed proposals for dredging in Port Chester Harbor, N. Y., will be received at this office until 12 M., February 23, 1915, and then publicly opened. Information on application. W. M. BLACK, Col., Engrs.

U. S. ENGINEER OFFICE, Savannah, Ga., January 25, 1915—Sealed proposals for furnishing and placing stone for raising low places in jetty at Savannah Harbor, Ga., will be received at this office until 12 Noon (Eastern Standard Time) February 24, 1915, and then publicly opened. Information on application. W. C. LANGFITT, Col., Engrs.

U. S. ENGINEER OFFICE, Galveston, Texas, Feb. 2, 1915.—Sealed proposals for dredging at Port Aransas, Texas, and in the Channel from Aransas Pass to Corpus Christi, Texas, will be received at this office until 12 o'clock noon, March 3, 1915, and then publicly opened. Information on application. C. S. RICHE, Lieut. Col., Engineers.

U. S. ENGINEER OFFICE, Galveston, Texas, February 15, 1915.—Sealed proposals for jetty and dike work at Aransas Pass, Texas, will be received at this office until 12 M., March 16, 1915, and then publicly opened. Information on application. C. S. RICHE, Lieut. Colonel, Engineers.

Classified Advertising

Positions Wanted, 3 cents a word, minimum charge 50 cents an insertion, payable in advance.

Positions Open, (Civil Service Examinations), **Employment Agencies** (Labor Bureaus), **Business Opportunities, Wanted** (Agents and Salesmen—Contract Work), **Miscellaneous** (Educational—Books), **For Sale,** 5 cents a word, minimum charge $1.00 an insertion.

Count four words for keyed address care of New York; five for Chicago. Abbreviated words or symbols count as full words.

Copy should reach us not later than 10 A.M. Wednesday for that week's issue. Answers addressed to our care, Tenth Avenue at Thirty-sixth St., New York or 1144 Monadnock Block, Chicago will be forwarded (excepting circulars or similarliterature).

No information given by us regarding keyed advertiser's name or address. Original letters of recommendation or other papers of value should not be inclosed to unknown correspondents. Send copies.

Advertisements calling for bids, $3.60 an inch per insertion. N

POSITIONS WANTED

Mechanical and Electrical Engineers

MECHANICAL ENGINEER, 20 years' practical experience as a designer in various branches of mechanical engineering, capable of independent investigation of mechanical problems, desires position. "Exceptional ability" one reference says. P. W. 838, Eng. News.

MECHANICAL ENGINEER, 35, technical school and 12 years' broad experience; New York interview. P. W. 881, Eng. News.

MECHANICAL ENGINEER, 37 years old, able, experienced, resourceful, now mechanical superintendent and assistant manager large manufacturing plant, desires position vicinity of New York. P. W. 887, Eng. News.

MECHANICAL ENGINEER, 35, fifteen years' experience, industrial engineering, structural steel, concrete, estimating and inspecting, holding responsible position, desires change; salary $2400. P. W. 890, Eng. News.

Civil Engineers

ENGINEER, 14 years' experience; surveys on railroad location and construction, irrigation, drainage, United States Geological, subdivisions, flood prevention and sewers. Flitman, 7 West Harrison, Danville, Ill.

CIVIL ENGINEER; graduate, 12 years' practical experience with consulting engineers and utility companies; water works and other utilities; investigations, reports, design, construction, appraisals. References. P. W. 825, Eng. News.

CIVIL ENGINEER, technical graduate. Three years' experience in the construction of water supply and sewage disposal plants, general building construction, pipe lines, and steel structures, as engineer and draftsman, desires position with engineer or contractor. At liberty after March 1. P. W. 803, Eng News.

YOUNG MAN—Technical graduate, 3 years' experience office and field, well recommended. Engineer or contractor. P. W. 799, Eng. News.

GRADUATE CIVIL ENGINEER; 6 years' experience, structural drafting railroad work and factory construction. P. W. 809, Eng. News.

CIVIL ENGINEERING GRADUATE desires position as instrumentman. P. W. 833, Eng. News.

UNIVERSITY GRADUATE, 5 years' experience in exploration, surveying and mapping, together with design and construction inspection of water power developments and tower transmission lines, desires further work. P. W. 844, Eng News.

CIVIL ENGINEER, 36, with broad field and office experience in railroad, hydrographic, dredging, water supply and building construction; thorough knowledge of drafting and designing; first-class references; immediately available. P. W. 856, Eng. News.

STUDENT OF INSTITUTION OF CIVIL ENGINEERS (England), four years' drawing-office experience; will consider any offer; highest references. P. W. 865, Eng. News.

CIVIL ENGINEER, eight years' experience on heavy construction; railroad, city and street work; graduate of leading technical school. P. W. 867, Eng. News.

GRADUATE CIVIL ENGINEER, 24, desires position; two years' experience steel structures and concrete. P. W. 868, Eng. News.

CIVIL ENGINEER; 10 years' experience, field and office, desires position; structural or reinforced concrete design and estimates; railroad or municipal. P. W. 670, Eng. News, Chicago.

CIVIL ENGINEER, technical graduate, three years' general experience on steel, reinforced concrete, and railway construction, desires position with opportunity for advancement; excellent references. P. W. 871, Eng. News.

GRADUATE ENGINEER, 26, experienced in street and highway work, also structural detaining and design. P. W. 884, Eng. News.

CIVIL ENGINEER, 30; single; eight years drainage, mining, municipal, structural, etc.; now in Southwest. P. W. 886, Eng. News.

Bridge and Structural

BRIDGE AND STRUCTURAL ENGINEER with long experience holding responsible positions wishes to change location. P. W. 751, Eng. News.

STRUCTURAL DETAILER and checker, technical graduate; five years' experience; references; salary desired, $125 per month. P. W. 859, Eng. News.

STRUCTURAL ENGINEER; experienced man with technical training and business experience; traveled abroad England and Continental Europe; desires position with company requiring the services of a technical man; references; no agencies. P. W. 883, Eng. News.

Surveyors

INSTRUMENTMAN, topographer, map, draftsman; thorough experience, own instruments; first class. P. W. 849, Eng. News, Chicago.

FIELD ENGINEER, 12 years' experience, all kinds of surveying, railroad and public works construction; Spanish spoken; would work in tropics. P. W. 882, Eng. News.

Draftsmen

CHIEF DRAFTSMAN wants position; 15 years' experience; 5 years in charge of an office of 20 men; has successfully handled over 600 contracts, 50 to 5000 tons; thoroughly experienced in mill and office buildings, coal tipples, bridges and complicated structural work; is a good designer and hustler; leaving of his own volition. P. W. 845, Eng. News.

DRAFTSMAN, specialist on topographical and geological map work, 10 years' railroad experience, lettering artist, desires position. P. W. 870, Eng. News.

DRAFTSMAN, 27, technical; 10 years' experience mechanical, electrical; expert letterer and neat worker; power and substations; light and power installations. P. W. 855, Eng. News.

Superintendents, Etc.

ENGINEER desires position. Expert derrick or cableway runner. Massachusetts and New York City licenses. References from all former employers. Location no object. P. W. 815, Eng. News.

GRADUATE ENGINEER, 10 years' experience on construction of various types foundations, bridge piers, retaining walls, bridges, railroad construction, wants job with contractors or engineering firm as superintendent or in charge construction office. Unmarried, go anywhere. P. W. 817, Eng. News.

ESTIMATOR, general building construction, graduate civil engineer, 10 years' experience, reliable, hustler, wants change, New York location. P. W. 769, Eng. News.

SUPERINTENDENT, experienced in highway, park and sewer construction, also in quarrying and crushing stone; estimator and organizer; go anywhere. P. W. 831, Eng. News.

CONSTRUCTION ENGINEER, available; 45, married, absolutely temperate; 15 years' experience on large work; excavation, railroad building, all kinds of concrete and building construction, mill-wrighting, handling and placing heavy machinery. Anywhere. Best of references. P. W. 827, Eng. News, Chicago.

SUPERINTENDENT or general foreman of crushing or mixing plant available Mar. 1; location immaterial; excellent references. P. W. 829, Eng. News, Chicago.

SUPERINTENDENT of building; 12 years' experience general building construction; references; go anywhere. P. W. 840, Eng. News, Chicago.

CARPENTER FOREMAN or general foreman; age 30; experienced; references; location immaterial. P. W. 839, Eng. News.

ENGINEER-SUPERINTENDENT understands connection between work and profits; deep water foundations, dams, retaining walls, docks, piers and water-works; plant layout and office detail. P. W. 853, Eng. News.

YOUNG RAILROAD MAN, difficult traffic problems, general maintenance, design and superintendence of heavy construction; good executive. P. W. 854, Eng. News.

SUPERINTENDENT AND ESTIMATOR on all trades entering into every class of construction; graduate C. E.; 20 years' active experience. P. W. 857, Eng. News.

GRADUATE ENGINEER, three years' experience in railway maintenance and construction, timekeeping and concrete inspection; eight months road surveys and topographic work, four months in full charge; three months factory construction; available immediately. P. W. 863, Eng. News.

ESTIMATOR (contractors') wishes position in that capacity with large contracting firm; am also reinforced-concrete and structural-steel engineer, with several years' experience as superintendent of construction; am scientific-school graduate with C. E. degree; can furnish character and ability references. P. W. 864, Eng. News.

SUPERINTENDENT for reinforced and cinder concrete; 15 years' experience, nine years with the present firm; have had charge of some of the largest buildings in the East. P. W. 866, Eng. News.

ESTIMATOR, general building construction, graduate civil engineer, 10 years' experience, reliable, hustler, wants change, New York location. P. W. 769, Eng. News.

SUPERINTENDENT OR GENERAL FOREMAN, ten years' experience reinforced-concrete buildings; high experience with chutes; sober, hustling; good organizer; highest reference. P. W. 852, Eng. News.

COLLECTOR AND ASSISTANT CASHIER for a modern equipped water company; two years' experience in line construction and handling of men, two years in bookkeeping and salesmanship; plumber by trade; capable of taking full charge of water plant in both field and office; best of references. P. W. 875, Eng. News, Chicago.

CONSTRUCTION ENGINEER; 16 years' experience, buildings, bridges, massive concrete, difficult foundations; good references. P. W. 885, Eng. News.

CONSTRUCTION AND SALES ENGINEER, seven years' experience handling and selling building supplies, engineering equipment to architects, engineers and contractors, wants position with firm where man of ability will be appreciated; will cover any territory or will represent firm wishing to open office in Worcester. Suite 1, 2 Downing St., Worcester, Mass.

TIMEKEEPER AND OFFICE MAN desires position; reference furnished. P. W. 876, Eng. News.

STEAM SHOVEL CRANEMAN desires employment; any make machinery; any location. P. W. 877, Eng. News.

SUPERINTENDENT OR GENERAL FOREMAN; 15 years' experience in office and factory building; dam, power and filtration plant construction, Government and city work; contractors' plants erected and maintained at low cost; thorough knowledge of carpentry, steel and iron work. P. W. 888, Eng. News.

SALES-ENGINEER; five years traveling Eastern half of the United States, selling and promoting various building materials; open for engagement Mar. 1. P. W. 889, Eng. News.

POSITIONS OPEN

COMPETENT QUANTITY SURVEYOR, one capable of taking off quantities and making up estimates on mason work and allied trades. References required. P. 798, Eng. News.

POSITION open in Metropolitan district for salesman of waterproofings and technical paints. Address in confidence, giving full information regarding experience, age and salary expected, P.860, Eng. News.

WANTED—By a large structural steel company located in the Middle West, a sales representative familiar with the trade in Ohio, Indiana and Kentucky, a resident of Cincinnati preferred; state full particulars, experience, references and salary expected in first letter. P. 861, Eng. News, Chicago.

WITH WHAT SUCCESS can you interview owners and engineers, buy materials, collect bills, settle disputes or work a gang? We may make a place in contracting business for a business man (27-32), honest, tactful and persistent; the engineer who has forgotten that he is one may succeed here; large city. P. 880, Eng. News.

CONTRACTING ENGINEER, experienced in reinforced-concrete industrial construction; close corporation owning a patented system of factory construction wishes conference with a contracting engineer capable of devoting all or part of his time to the enlargement of operations; manufacturing plants to the value of nearly a million dollars have already been erected under license; success of system demonstrated, and endorsed by practical engineers; sales organization available and good prospects pending; liberal division of profits assured; an investment may be required to finance building operations; none but a first-class experienced man with highest reference will be considered. Address "S. M. P.," P. O. Box 824, New York City.

Civil-Service Opportunities

Competitive examinations for the civil-service positions named below will be held on or up to the dates given. For detailed information, write the addresses specified.

Draftsman—(Male)—$75-$100 per month; examination Mar. 6; for vacancy in the Accounting and Engineering Dept. of the Illinois Public Utilities Commission; write to the State Civil Service Commisison, Springfield, Ill.

Electrical Engineer—(Male)—$200-$300 per month; for vacancy in the Accounting and Engineering Dept. of the Illinois Public Utilities Commission; write to the State Civil Service Commission, Springfield, Ill.

Hull Draftsman—(Male)—$1800; examination Feb. 24-25; for vacancy in office of Chief of Engineers, War Dept., Washington, D. C., or vacancies as they occur in other positions requiring similar qualifications; write to the United States Civil Service Commission, Washington, D. C., for Circular No. 122 and Application Form No. 1312.

Draftsman—(Male)—$1000; examination Feb. 25 and Mar. 4; for vacancy in the Water Bureau, Dept. of Pub. Wks.; open to residents of the City of Philadelphia only; write to Civil Service Commission, City Hall, Philadelphia, Penn.

Draftsman—(Male)—$1000-$1200; examination Feb. 24 and Mar. 3; for vacancy in the City Transit Dept.; open to residents of Philadelphia only; write to Civil Service Commission, City Hall, Philadelphia, Penn.

Draftsman—(Male)—$1200; examination Feb. 24 and Mar. 3; for vacancy in the Bureau of Surveys (Bridge Div.), Dept. of Pub. Wks.; open to residents of the City of Philadelphia only; write to Civil Service Commission, City Hall, Philadelphia, Penn.

Draftsman—(Male)—$900-$1200; examination Feb. 23 and Mar. 2; for vacancy in the Bureau of Highways, Dept. of Pub. Wks.; open to residents of the City of Philadelphia only; write to Civil Service Commission, City Hall, Philadelphia, Penn.

Draftsman—(Male)—$600-$900; examination Feb. 23 and Mar. 2; for vacancy in the Bureau of Highways, Dept. of Pub. Wks.; open to residents of the City of Philadelphia only; write to Civil Service Commissioner, City Hall, Philadelphia, Penn.

Draftsman—(Male)—$900-$1200; examination Feb. 20 and 27; for vacancy in the Bureau of Surveys, Dept. of Pub. Wks.; open to residents of the City of Philadelphia only; write to the Civil Service Commission, City Hall, Philadelphia, Penn.

Assistant Engineer—(Male)—$2100; examination Feb. 26-27; for vacancy in the Bureau of Highways, Dept. of Pub. Wks.; write to Civil Service Commission, City Hall, Philadelphia, Penn.

Assistant Engineer—(Male)—$2500; examination Feb. 26-27; for vacancy in the Bureau of Highways, Dept. of Pub. Wks.; write to Civil Service Commission, City Hall, Philadelphia, Penn.

Employment Agencies

The Employment Agencies advertising in this paper agree to refund any registration fee on demand any time within the first six months when no position is secured.

TECHNICAL ENGINEERS in every line for available positions; employers and applicants write The Toledo Engineering Agency, Toledo, Ohio.

WANTED

AGENTS AND SALESMEN

ENGINEERING REPRESENTATIVES—Agents with offices in all parts of the United States to represent the Thomas Method of reinforced concrete bridge construction. W. M. Thomas, 915 Hibernian Bldg., Los Angeles, Calif.

MISCELLANEOUS

CONSULTING MATHEMATICIANS, physicists and engineers; refinements of engineering; gyroscopic effect, vibrations, governor troubles, etc.; special research work, including theoretical investigations. M. 862, Eng. News.

IF YOU HAVE A CONSTRUCTION PROPOSITION of merit, we can finance or construct it. M. 878, Eng. News.

BUSINESS OPPORTUNITIES

SALES MANAGER—A Canadian farming implement manufacturing corporation has an opening for experienced sales manager [preferably with experience in above line], to take full charge of sales department; attractive salary and commission contract guaranteed to right party; $2500 cash investment and A1 references required. This is a high grade proposition for a high grade man. Investment fully secured. Correspondence treated strictly confidential. B. O. 805, Eng. News.

FACTORY SUPERINTENDENT—Position vacant for a high grade factory superintendent, with executive ability, to take full charge of all branches of a farming implement factory in Canada; applicant must be able to invest $2500 cash and move at once to Ontario, Canada; contract with good salary guaranteed to right party; investment covered by guaranteed security. B. O. 806, Eng. News.

TREASURER—Large manufacturing corporation, established 1850, location Canada, has a vacancy for a highly efficient business man as secretary and treasurer; party must be able to invest at least $5000 cash and give best of references as to ability and character; contract with good salary guaranteed to right party; investment absolutely secured; answer in full or no attention paid. B. O. 807, Eng. News.

ASSOC. MEM. AM. SOC. C. E. wants to buy civil engineering practice, netting at least $2500 per year, or working interest in larger business. Give price and essential facts, which will be held confidential. B. O. 846, Eng. News.

PARTNER wanted with capital to join me in general contracting business; particulars in full; good opportunity for right man. B. O. 858, Eng. News.

GRADUATE CIVIL ENGINEER, Assoc. M. Am. Soc. C. E., desires to take over an established engineering business in a live growing city; will expect records and good will to go with the business; references will be furnished. B. O. 869, Eng. News.

ENGINEER'S GRAND OPPORTUNITY—Long-established young contractor with unquestionable reputation and expert knowledge in the economical construction of public and private work and with exceptional ability in securing and executing profitable contracts desires to meet young graduate civil engineer who is willing to learn the contracting and construction line and take an active interest with an investment of from $15,000 to $25,000. B. O. 872, Eng. News.

PARTNERSHIP wanted with experienced estimator on highway and light construction; must be able to invest from three to five thousand dollars. B. O. 879, Eng. News.

Classified List

Second Hand Machinery, Material and Equipment

For Sale—Exchange—Rent—Wanted

Items not otherwise marked list equipment for sale.

Rates: Less than 4 insertions 55 cents per line—4 to 11 insertions 50 cents per line—12 or more insertions 45 cents per line.

N

ADDRESSES

BECKWITH, J. S., 108 Park Way, N. S., Pittsburgh, Pa.
BLAIR, John H., Boonville, Indiana.
BRADEN, James C., 26 Cortlandt St., N. Y. City.
CONCORD Co., 117 Main St., Flemington, N. J. (Tel. 81 L).
CONTRACTORS' Service Co., 50 Church St., N. Y. City.
DALLETT & CO., Harrison Bldg., Phila., Pa.
DOUGLAS, Geo. B., 29 Broadway, New York.
GIVIN Co., Herbert, 30 Church St., N. Y. City.
GRIMSHAW CO., Wm. B., Drexel Bldg., Phila., Pa.
HITNER'S Sons Co., Henry A., Philadelphia, Pa.
HOISTING Engine Sales Co., 120 West 32d St., New York.
INGERSOLL, H. G., 76 William St., New York, N. Y.—Much of this equipment can be seen at work, vicinity N. Y.
LINES FLYNN Co., Inc., 30 Church St., N. Y. City.
MARINE Metal and Supply Co., 167 South St., N. Y. City.
NEW RIVER Co., The, Macdonald, W. Va.
PIPE & Contractors Supply Co., 3 Dover St., N. Y. City.
ROCHESTER—Address P. O. Box 27, Rochester, N. Y.
SAMPSON Co., Geo. H., 13 Pearl St., Boston, Mass., and 42 B'way, N. Y. C.; or Winston & Co., Brown Station, N. Y.
SHERWOOD, E. C., 50 Church St., New York, N. Y.
SOUTHERN Iron & Equipment Co., Atlanta, Ga.
STALLEY, G. T., Box 390, Cleveland, Ohio.
WHITNEY, O. R., 39 Cortlandt St., N. Y. C. (Cort. 6095).

AIR COMPRESSORS

2—Ingersoll-Rand, Cross Compound steam and air cylinders with Corliss valve gear 2500 cu. ft. capacity.—SAMPSON.

2—Ingersoll-Rand, Cross Compound Steam and Air Cylinders with Corliss valve gear 3300 cu.ft. capacity. Boilers and Condensers with this plant. All in good condition. Bargain.—SAMPSON.

1—4700 Cu. Ft. Rand B. B. 3 Compound Steam and Compound Air Compressor with Condenser.—SAMPSON.

Several second-hand air compressors, steam and belt driven, straight line and two stage of various sizes from 70 to 1300 cu. ft. capacities. Good condition.—SAMPSON.

1—22x22-13-¼x24, Sullivan, steam driven, class WB 2, straight line, 2 stage, cap., 1160 cu. ft., 1—24x24x30, McKiernan, class A, straight line, steam driven, cap. 1414 cu. ft.; 1—24x24-¼x30, Ingersoll, class A, steam driven, straight line, cap. 1223 cu. ft., 2—16x20-¼x16, Ingersoll-Sargeant, class H-1, duplex, steam driven, cap. 1540 cu. ft.—HITNER'S.

1 Blaisdell 16x10x10, 60 H.P., 342 cu.ft. First class condition. Theo. Smith & Sons Co., Jersey City, N. J.

Steam driven 3 Laidlaw-Dunn-Gordon duplex 2-stage, and 5 Norwalk tandem 2-stage, capacities 900 to 2100 cu.ft., condition excellent.—NEW RIVER.

3—24"x24"x30" Rand S. L. Price $1000 each—L. F. SEYFERT'S SONS, INC., 437 N. 3rd St., Phila., Pa.

2 Norwalk 700 cu.ft. and 1200 cu.ft.; excellent condition. Reason for selling, mine worked out. No further use for same.—HANDY BROS. MINING CO., Bay City, Mich.

BAILING PRESS

1 Dederick continuous bailing press.—CONCORD.

BOILERS

5—250 H.P. B. & W., 150 lbs. steam. Horizontal return tubular, 2—72"x20', 1—78"x20', 1—72"x18', 1—72"x15', 1—72"x14', triple riveted, butt strapped, 125 lbs. steam.—HITNER'S.

35, 60 and 80 H.P. loco. boilers—PIPE.

6—550 H.P. Altman Taylor B. & W. type, 150 lbs. pressure, complete with steel supporting structure—Arranged to set two in battery; one battery equipped with Taylor stokers.—HENRY R. KENT & CO., 141 Broadway, New York, N. Y.

75 H.P. loco. type 100 lb. pressure allowed.—INGERSOLL.

BONE MILL

3' Denmead bone mill with screen elevators.—CONCORD.

BUCKETS

1—1 yd. Theo. Smith Orange Peel.—PIPE.

5—¾ cu. yd. standard clam shells.—STALLEY.

Orange peel—¾, 1, 1¼, 1½ yd. capacity; clam shell—½ to 3 yd. capacity.—GIVIN.

⅞ yd. orange peel Smith.—INGERSOLL.

1 "Haiss" ¾ yd. and 1 "Haiss" 1 yd. clamshell, in first-class shape; used short time. Digging teeth can be installed.—GEO. HAISS MFG. CO., 142nd St. and Rider Ave., N. Y. City.

[Wanted]

Immediately—A ¾ yd. drag line bucket. Page preferred. Address Box 25, Dancy, Wis.

CABLEWAYS

400' for sewer work. Carson-Lidgerwood eng.—INGERSOLL.

Lidgerwood 6¼x10" DC. Reversible link motion DD engine, 525' of 1⅜" main cable with carriage, fall block, button line, etc., new in 1913.—SHERWOOD.

CARS

[Standard Gauge]

7—12 yd. 2-way Oliver dump cars with air brakes.—ROCHESTER.

2—10 cu.yd. wooden or steel air side dump, must be in first class shape, late make and ready to run.—BLAIR.

A number of 4, 6 and 12 yd., also small "V" body type.—SCHMIDT.